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## CLAIMS

- 1. Method for producing oligosaccharides, comprising the steps of:
- a) selecting a gene which codes for an enzyme which is capable of converting sucrose into an oligosaccharide;
- b) linking the gene to suitable transcription-initiation and transcription-termination signals in order to provide an expression construct;
  - c) transforming a suitable plant cell with the expression construct;
- d) regenerating a transgenic plant from the transformed plant cell;
  - e) culturing the transgenic plant under conditions enabling the expression and activity of the enzyme; and
- f) isolating the oligosaccharides from the transgenic 15 plant.
  - 2. Method as claimed in claim 1, characterized in that the gene which codes for an enzyme which is capable of converting sucrose into an oligosaccharide is of microbial origin.
- 3. Method as claimed in claim 2, characterized in that the gene which codes for an enzyme which is capable of converting sucrose into an oligosaccharide is the <u>ftf</u> gene of <u>Streptococcus</u> mutans or a mutated version thereof.
- 4. Method as claimed in claim 2, characterized in that 25 the gene which codes for an enzyme which is capable of converting sucrose into an oligogracharide is the <u>Sac</u>B gene of <u>Bacillus subtilis</u> or a mutated version thereof.
- 5. Method as claimed in claim 1, characterized in that the gene which codes for an enzyme which is capable of 30 converting sucrose into an oligosaccharide is of vegetable origin.
- 6. Method as claimed in claim 5, characterized in that the gene which codes for an enzyme which is capable of converting sucrose into an oligosaccharide is the sucrose-35 sucrose-fructosyltransferase (86T) gene of the onion or a mutated version thereof.

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